## ON THE BRITISH SPECIES OF PHORA.

BY JOHN H. WOOD, M.B.

(Continued from Vol. xlv, p. 244).

## SECTION D.

- 1 (44) First costal division much longer than the second and third together (at least half as long again, often twice as long or even more).
- 2 (25) Costal fringe short.
- 3 (4) Middle and hind tibix with double rows of cilia, one on each side the seam.
- 39. Thorax and halteres yellow, mesopleuræ bare; venter and 1st segment of male abdomen wholly yellow, the rest of the dorsum black or suffused on the last segment or two with yellow, female abdomen black only on dorsum of 3rd and 4th segments; from yellow, dusky towards vertex, rather longer than broad, its bristles large, inner bristle of the lower row much below level of outer one, but well away from eye margin; one pair only of very minute supra-antennal bristles; antennæ and palpi clear yellow, the former large and oval and with a very short arista (about as long as the frons), the latter small and with very short and stubby bristles; wings pale yellowish; costa about 2 wing length, 1 fully double 2 + 3 (3) rather less (2), angle at fork rather small, 1st thin vein recurved at margin; legs yellow; tibial cilia on inner side of seam very large and conspicuous, on outer smaller and confined to upper half of limb; hind metatarsi somewhat thickened (3) much thickened (9); hypopygium more or less concealed within the last segment, but usually leaving visible the short rounded flap into which the lower edge on each side is cut; anal organ very large, yellow, but more dusky at its base, and with the usual pair of terminal bristles remarkably large; ovipositor very large, the 1st joint always exserted and often the whole organ, 2nd joint encircled at the end with 6 strong bristles  $\dots 1\frac{1}{2}$ —2 mm. fasciata, Fall.
- 4 (3) Cilia on one side of the seam only—the inner.
- 5 (14) Mesopleuræ bristly.
- 6 (7) Halteres yellow. Arista very short—not longer than the frons.
- 3. Thorax yellow, pleural bristles small and few; abdomen black; frons grey, as long as broad, frontal bristles as in fusciata; the upper pair of supra-antennal bristles small, the under very minute; antennæ red, not large, and of the usual roundish form: palpi pale yellow, large and armed as in fasciata; wings and veins yellow; costa about  $\frac{2}{5}$  wing length, 1 about half as long again as 2+3, angle at fork acute, 1st thin vein nearly straight at its origin from the fork and not recurved at the margin (this straightness at the start is the invariable condition of the first thin vein, at least in those species in this section which do not much exceed 1 mm. in measurement); legs yellow, hind femora dusky at tip, the hairs on basal half of its under-side well developed; hind tibiæ strongly arched and strongly ciliated; hypopygium concealed, anal organ clear yellow, very

large, and as long as the last abdominal segment, the bristles at its extremity of the usual size ......barely 1 mm. pallens, n. sp.

- 7 (6) Halteres black. Arista much longer than frons.
- Pleuræ with a very large and spine-like bristle on each side, besides smaller ones.
- 3. Described from a single specimen: Thorax and abdomen black, the latter with pale hind margins to the segments, the spine-like bristle very conspicuous and situate high up on the pleura close to the root of the wing; from black, \frac{1}{3} broader than long, 4 large and nearly equal supra-antennal bristles, the upper pair wide apart and outside an alignment with inner bristle of middle frontal row, the under pair considerably below them and approximated; outer bristle of lower frontal row much above the level of the inner one, antennæ not small, palpi yellow; wings lightly tinged with grey, thick veins black, costa 2 wing length, fringe very short, 1 fully half as long again as 2 + 3, angle at fork large; legs brown, hind femora with some long, loose hairs on basal half of under-side, tibial cilia weak but fairly distinct and bristly in character; hypopygium almost entirely concealed within the last segment, but as far as can be judged it is very short, a small subanal body being exposed but no ventral plate, whilst the yellow anal organ is very large and as long as the last abdominal segment ......about \(\frac{3}{4}\) mm. spinata, n. sp.
- 9 (8) Pleuræ without such bristle.
- 10 (11) Terminal joint of fore tarsi dilated. Wings limpid, thin veins colourless.
- 11 (10) Terminal joint simple.
- 12 (13) Abdomen strikingly banded with whitish hind margins to the segments.

- 13 (12) Abdomen not so banded.
- 14 (5) Mesopleuræ bare.
- 15 (20) Halteres yellow.
- 16 (17) A largish species ( $1\frac{1}{2}$  mm. or more). First costal division more than twice as long as the other two.
- δ Ψ. Thorax black, sometimes obscurely reddish; abdomen entirely black, or yellow underneath and with narrow yellow margins to the segments; frons black and slightly shining, rather broader than long, upper supra-antennal bristles large, under ones much smaller—about ½ the size, antennæ black or red, palpi pale yellow; wings nearly clear in the darker and pale yellowish-brown in the paler specimens, costa ⅓ wing length, 1 more than double 2 + 3, fringe only moderately short, outer branch of 2nd thick vein incrassated, angle at fork large; legs very variable, from yellow in the pale forms to brown or almost black in the dark, tibial cilia distinct and rather sparse; male abdomen stoutish, hypopygium small, bare of bristles and almost of hairs, ventral plate small and indistinct, anal organ short and thick, black in the dark and yellow in the pale forms...

 $1\frac{1}{2}$ — $1\frac{3}{4}$  mm. pygmæa, Zett.

- 17 (16) Small species (under 1 mm.). First costal division only half as long again as the other two.
- 18 (19) Halteres yellow and yellow stalked. Hypopygium without bristles.
- 19 (18) Halteres pale yellow and black stalked. Hypopygium with a small bristle at each hind corner.

- 3 ♀. Thorax and abdomen black; from moderately but distinctly glossy, about ½ broader than long, only 1 pair of rather weak supra-antennal bristles, placed low on the from and very closely approximated, consequently inner bristles of lower frontal row rather nearer the middle line than usual, palpi dull or dusky yellow; wings nearly clear, thin veins fine and delicate, costa ⅓ wing length; legs blackish-brown, fore tarsi not longer and more slender than usual (normal) tibial cilia fine and delicate; male abdomen not stout, hypopygium of moderate size, rather hairy and with a short bristle below on each side, ventral plate indistinguishable, anal organ yellow or dusky yellow, short and thick...½ mm. or barely, angelicæ, n. sp.
- 20 (15) Halteres black.
- 21 (22) Male palpi very large and armed with only a few weak bristles.
- 22 (21) Palpi simple.
- 23 (24) Costa very short—barely  $\frac{1}{3}$  wing length; fringe short without being very short. A very minute species.
- 3. Thorax and abdomen black; frons black, fully \( \frac{1}{3} \) broader than long, supraantennal bristles large and nearly equal, the upper pair set very wide apart and outside an alignment with the inner bristles of the middle frontal row, under pair considerably below them and approximated, outer bristle of lower frontal row moved higher up the frons than usual, and the middle row shifted close up against the ocellar triangle, antennæ small and black, arista thick and short—not half as long again as the frons, palpi yellow; wings lightly tinged with yellowish-brown, veins brown, the thin ones fine and delicate, 1 more than double 2 + 3, angle at fork moderate; legs yellowish-brown, hind femora more dusky at the outer end and beneath with a few long hairs on the basal half, hind tibiæ scarcely arched on the upper-side, the cilia small and delicate but of bristly character; hypopygium moderate in size, with a few strongish hairs beneath, ventral plate not distinguishable, anal organ small and yellow...

barely ½ mm. gregaria, n. sp.

- 24 (23) Costa more than \( \frac{1}{3} \) wing length; fringe very short.
- Q. Described from a single specimen: Thorax obscurely reddish, abdomen black; from obscurely reddish with a narrow margin of red above the antennæ, frontal and supra-antennal bristles as in gregaria, antennæ small and red, arista of the usual length, palpi yellow; wings more distinctly

- 25 (2) Costat fringe long.
- 26 (33) Mesopleuræ bristly.
- 27 (28) Besides the ordinary bristles a remarkably large and spine-like one similar to the one in spinata, and lying as there close to the root of the wing.
- 28 (27) With no such bristle.
- 29 (30) Fore tarsi short and distinctly thickened in both sexes. Halteres variable, from yellow to black.
- ¿ ♀. Thorax and abdomen black; frons black, obscurely shining, about ⅓ broader than long, 4 moderate and nearly equal supra-antennal bristles, the upper ones inside an alignment with inner bristles of middle frontal row, antennæ small, palpi yellow; wings nearly clear, costa ⅔ wing length or rather less, fringe full long yet not very long, 1 at least double 2 + 3, angle at fork moderate; legs from dark yellowish-brown to almost black, tibial cilia very small and nunerous; the last 2 segments or so of male abdomen margined on each side of the venter with some large and coarse hairs, continued on to the hypopygium in a more delicate form, hypopygium of moderate size, black and somewhat glossy at the base, ventral plate indistinguishable, anal organ small, yellow or dusky yellow...

about 1 mm. involuta, n. sp.

- 30 (29) Fore tarsi simple. Halteres not variable.
- 31 (32) Halteres deep yellow.
- $\delta$  ?. Thorax and abdomen black; from somewhat shining, about  $\frac{1}{4}$  broader than long, 4 strong and equal supra-antennal bristles ( $\delta$ ) nearly equal

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(To be continued).

HELP-NOTES TOWARDS THE DETERMINATION OF BRITISH TENTHREDINIDÆ, &c. (26 continued).

DOLERIDES (continued). DOLERUS, Jur.

BY THE REV. F. D. MORICE, M.A., F.E.S.

(Continued from page 105).

## FURTHER NOTES ON THE SPECIES.

Triplicatus, Kl.—The only British  $\mathcal{S}$   $\mathcal{S}$  I have seen have the thorax entirely black. This form was described by Klug as T. tremula, and Konow employed the name tremulus, Kl., for the species. But, as the 2 had previously been described in the same work as T. triplicata, I follow Mr. Cameron in retaining the name which appears to have priority.

Madidus, Kl.—This species is called lateritius in the Monograph. But, according to Konow, T. lateritia, Kl., is the  $\circ$  not of T. madidu, Kl., but of another of his  $\circ \circ \circ$ , viz., uliginosa, which seems not to be British. Therefore in this case I adopt Konow's nomenclature.

Ferrugatus, Lep.—The identification of this species (called by Thomson, brevicornis—a pre-occupied name—and by Konow, thomsoni) with Lepelletier's ferrugatus is due to Dr. Enslin. I have seen a good many British  $\circ \circ$  of the species, but only two  $\circ \circ \circ$  (both of the very dark form var. miricolor, Knw.). They were taken in Dumbartonshire by Mr. Malloch, who has kindly given me one of them.

Anticus is also British, but seems much rarer—at least I have only seen one 3 and one 2 (taken by Mr. Atmore in the King's Lynn district). The description by Mr. Cameron of his anticus does not agree so well with anticus; Kl., as with ferrugatus, although in Vol. iv he says that our species appears to him to be true anticus Kl. and not brevicornis, Th., nec. Zadd. (i.e., ferrugatus).

Pratensis, L.—I do not enter into the probably insoluble question whether Linné's actual type of pratensis belonged to this species.